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CLAIMS

A method of treating a power transmission belt/belt sleeve of the type having an endless body with a length extending around an axis and a radially inwardly facing surface and a radially outwardly facing surface, said method comprising the steps of:

wrapping at least one sheet of vapor-impervious film against and around the radially outwardly facing surface of the belt/belt sleeve body; and

vulcanizing the belt/belt sleeve with the at least one sheet of vaporimpervious film wrapped around the belt/belt sleeve body.

- 2. The method of treating a power transmission belt/belt sleeve according to claim 1 wherein the belt/belt sleeve body has axially spaced, axially facing ends and the step of wrapping comprises the step of wrapping at least one sheet of vapor-impervious film over at least part of each of the axially spaced, axially facing ends of the belt/belt sleeve body.
- 3. The method of treating a power transmission belt/belt sleeve according to claim 1 further including the step of mounting the belt/belt sleeve on a mold and the step of vulcanizing comprises the step of vulcanizing the belt/belt sleeve with the belt/belt sleeve mounted on the mold.

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- 4. The method of treating a power transmission belt/belt sleeve according to claim 1 further including the step of removing the at least one sheet of vapor-impervious film from the belt/belt sleeve body after vulcanizing the belt/belt sleeve.
- 5. The method of treating a power transmission belt/belt sleeve according to claim 4 including the step of treating the radially outwardly facing surface of the belt/belt sleeve body after removing the at least one sheet of vapor-impervious film.
- 6. The method of treating a power transmission belt/belt sleeve according to 5 wherein the step of treating comprises the step of grinding the radially outwardly facing surface of the belt/belt sleeve body.
- 7. The method of treating a power transmission belt/belt sleeve according to claim 6 wherein the step of grinding comprises the step of grinding at least two grooves in the belt/belt sleeve body through the radially outwardly facing surface to define at least one V-shaped rib extending along the length of the belt/belt sleeve body.
- 8. The method of treating a power transmission belt/belt sleeve according to claim 1' including the step of forming alternating grooves and teeth along the length of the belt/belt sleeve body.

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- 9. The method of treating a power transmission belt/belt sleeve according to claim 8 wherein the step of forming alternating grooves and teeth comprises the step of forming alternating grooves and teeth at the radially inwardly facing surface of the belt/belt sleeve body and further including the steps of removing the at least one sheet of vapor-impervious film from the belt/belt sleeve body after vulcanizing the belt/belt sleeve and grinding the radially outwardly facing surface of the belt/belt sleeve body after removing the at least one sheet of vapor-impervious film.
- 10. The method of treating a power transmission belt/belt sleeve according to claim 1 wherein the step of wrapping at least one sheet of vapor-impervious film comprises the step of wrapping at least one sheet of vapor-impervious film that comprises synthetic resin.
- 11. The method of treating a power transmission belt/belt sleeve according to claim 1 wherein the belt/belt sleeve body has axially spaced, axially facing ends which join to the radially outwardly facing surface of the belt/belt sleeve body at first and second corners and further including the step of applying a sealing material in addition to the vapor-impervious film at at least one of the first and second corners prior to vulcanizing the belt/belt sleeve.
- 12. The method of treating a power transmission belt/belt sleeve according to claim 11 wherein the step of applying a sealing material comprises the step of

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applying a fibrous sealing material that comprises at least one of rubber-impregnated canvas and non-woven fabric.

13. The method of treating a power transmission belt/belt sleeve according to claim 1 wherein the step of wrapping comprises the step of wrapping the at least one sheet of vapor-impervious film spirally around the radially outwardly facing surface of the belt/belt sleeve body.

14. A treating system comprising:

a belt/belt sleeve having an endless body with a length extending around an axis and a radially inwardly facing surface and a radially outwardly facing surface; at least one sheet of vapor-impervious film against and extending around the radially outwardly facing surface of the belt/belt sleeve body; and

a vulcanizing vessel in which the belt/belt sleeve with the at least one sheet of vapor-impervious film thereon resides and in which a vulcanization process can be carried out.

15. The treating system according to claim 14 wherein the belt/belt sleeve body has axially spaced, axially facing ends and the at least one sheet of vapor-imperious film extends at least partially over the axially spaced, axially facing ends of the belt/belt sleeve body.

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- 16. The treating system according to claim 14 further comprising a mold on which the belt/belt sleeve body is mounted.
- 17. The treating system according to claim 14 wherein the at least one sheet of vapor-impervious film comprises a synthetic resin.

The treating system according to claim 14 wherein the belt/belt sleeve body/has axially spaced, axially facing ends which join to the radially outwardly facing surface of the belt/belt sleeve body at first and second corners and the treating system further comprises a sealing material which is applied over the vapor-impervious film at at least one of the first and second corners.

- 19. The treating system according to claim 18 further comprising a mold on which the belt/belt sleeve body is mounted, wherein the sealing material bridges between the belt/belt sleeve and the mold at the at least one of the first and second corners.
- 20. The treating system according to claim 18 wherein the sealing material comprises at least one of rubber-impregnated canvas and non-woven fabric.

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- 21. The treating system according to claim 14 wherein the at least one sheet of vapor-impervious film is spirally wrapped around the radially outwardly facing surface of the belt/belt sleeve body.
- 22. The treating system according to claim 14 wherein the radially inwardly facing surface of the belt/belt sleeve body has alternating grooves and teeth along the length of the belt/belt sleeve body.